

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/512,5810
Source: 1/FW16
Date Processed by STIC: 1/4/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/512,5810

CRF Edit Date: 1/4/05
Edited by: JK

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

— Deleted: _____ invalid beginning/end-of-file text ; _____ page numbers

— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

— Other:



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/512,581D

DATE: 01/04/2005
TIME: 17:45:24

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01042005\I512581D.raw

3 <110> APPLICANT: Soto, Ana M.
4 Sonnenschein, Carlos
5 Geck, Peter
6 Szelei, Jozsef
8 <120> TITLE OF INVENTION: NOVEL ANDROGEN-INDUCED SUPPRESSOR OF CELL PROLIFERATION AND
USES
9 THEREOF
11 <130> FILE REFERENCE: 34724-026
13 <140> CURRENT APPLICATION NUMBER: US 09/512,581D
14 <141> CURRENT FILING DATE: 2000-02-24
16 <150> PRIOR APPLICATION NUMBER: US 60/121,461
17 <151> PRIOR FILING DATE: 1999-02-24
19 <160> NUMBER OF SEQ ID NOS: 72
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 5271
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (66)..(4238)
32 <400> SEQUENCE: 1
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35 ctgtc atg gct cat tca aag act agg acc aat gat gga aaa att aca tat 110
36 Met Ala His Ser Lys Thr Arg Thr Asn Asp Gly Lys Ile Thr Tyr
37 1 5 10 15
39 ccg cct ggg gtc aag gaa ata tca gat aaa ata tct aaa gag gag atg 158
40 Pro Pro Gly Val Lys Glu Ile Ser Asp Lys Ile Ser Lys Glu Glu Met
41 20 25 30
43 gtg aga cga tta aag atg gtt gtg aaa act ttt atg gat atg gac cag 206
44 Val Arg Arg Leu Lys Met Val Val Lys Thr Phe Met Asp Met Asp Gln
45 35 40 45
47 gac tct gaa gaa aag gag ctt tat tta aac cta gct tta cat ctt 254
48 Asp Ser Glu Glu Lys Glu Leu Tyr Leu Asn Leu Ala Leu His Leu
49 50 55 60
51 gct tca gat ttt ttt ctc aag cat cct ggt aaa gat gtt cgc tta ctg 302
52 Ala Ser Asp Phe Phe Leu Lys His Pro Gly Lys Asp Val Arg Leu Leu
53 65 70 75
55 gta gcc tgc tgc ctt gct gat att ttc agg att tat gct cct gaa gct 350
56 Val Ala Cys Cys Leu Ala Asp Ile Phe Arg Ile Tyr Ala Pro Glu Ala
57 80 85 90 95
59 cct tac aca tcc cct gat aaa cta aag gat ata ttt atg ttt ata aca 398
60 Pro Tyr Thr Ser Pro Asp Lys Leu Lys Asp Ile Phe Met Phe Ile Thr
61 100 105 110

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63	aga cag ttg aag ggg cta gag gat aca aag agc cca caa ttc aat agg	446
64	Arg Gln Leu Lys Gly Leu Glu Asp Thr Lys Ser Pro Gln Phe Asn Arg	
65	115 120 125	
67	tat ttt tat tta ctt gag aac att gct tgg gtc aag tca tat aac ata	494
68	Tyr Phe Tyr Leu Leu Glu Asn Ile Ala Trp Val Lys Ser Tyr Asn Ile	
69	130 135 140	
71	tgc ttt gag tta gaa gat agc aat gaa att ttc acc cag cta tac aga	542
72	Cys Phe Glu Leu Glu Asp Ser Asn Glu Ile Phe Thr Gln Leu Tyr Arg	
73	145 150 155	
75	acc tta ttt tca gtt ata aac aat ggc cac aat cag aaa gtc cat atg	590
76	Thr Leu Phe Ser Val Ile Asn Asn Gly His Asn Gln Lys Val His Met	
77	160 165 170 175	
79	cac atg gta gac ctt atg agc tct att att tgt gaa ggt gat aca gtg	638
80	His Met Val Asp Leu Met Ser Ser Ile Ile Cys Glu Gly Asp Thr Val	
81	180 185 190	
83	tct cag gag ctt ttg gat acg gtt tta gta aat ctg gta cct gct cat	686
84	Ser Gln Glu Leu Leu Asp Thr Val Leu Val Asn Leu Val Pro Ala His	
85	195 200 205	
87	aag aat tta aac aag caa gca tat gat ttg gca aag gct tta ctg aag	734
88	Lys Asn Leu Asn Lys Gln Ala Tyr Asp Leu Ala Lys Ala Leu Leu Lys	
89	210 215 220	
91	agg aca gct caa gct att gag cca tat att acc act ttt ttt aat cag	782
92	Arg Thr Ala Gln Ala Ile Glu Pro Tyr Ile Thr Thr Phe Phe Asn Gln	
93	225 230 235	
95	gtt ctg atg ctt ggg aaa aca tct atc agc gat ttg tca gag cat gtc	830
96	Val Leu Met Leu Gly Lys Thr Ser Ile Ser Asp Leu Ser Glu His Val	
97	240 245 250 255	
99	ttt gac tta att ttg gag ctc tac aat att gat agt cat ttg ctg ctc	878
100	Phe Asp Leu Ile Leu Glu Leu Tyr Asn Ile Asp Ser His Leu Leu Leu	
101	260 265 270	
103	tct gtt tta ccc cag ctt gaa ttt aaa tta aag agc aat gat aat gag	926
104	Ser Val Leu Pro Gln Leu Glu Phe Lys Leu Lys Ser Asn Asp Asn Glu	
105	275 280 285	
107	gag cgc cta caa gtt gtt aaa cta ctg gca aaa atg ttt ggg gca aag	974
108	Glu Arg Leu Gln Val Val Lys Leu Leu Ala Lys Met Phe Gly Ala Lys	
109	290 295 300	
111	gat tca gaa ttg gct tct caa aac aag cca ctt tgg cag tgc tac ttg	1022
112	Asp Ser Glu Leu Ala Ser Gln Asn Lys Pro Leu Trp Gln Cys Tyr Leu	
113	305 310 315	
115	ggc agg ttt aat gat atc cat gta cca atc cgc ctg gaa tgt gtg aaa	1070
116	Gly Arg Phe Asn Asp Ile His Val Pro Ile Arg Leu Glu Cys Val Lys	
117	320 325 330 335	
119	ttt gct agc cat tgt ctc atg aac cat cct gat tta gca aaa gac tta	1118
120	Phe Ala Ser His Cys Leu Met Asn His Pro Asp Leu Ala Lys Asp Leu	
121	340 345 350	
123	aca gag tat ctt aaa gtg agg tca cat gac cct gag gaa gct att aga	1166
124	Thr Glu Tyr Leu Lys Val Arg Ser His Asp Pro Glu Glu Ala Ile Arg	
125	355 360 365	
127	cat gat gtt att gtg tca ata gtt aca gct gct aaa aag gat att ctt	1214

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128 His Asp Val Ile Val Ser Ile Val Thr Ala Ala Lys Lys Asp Ile Leu		
129 370	375	380
131 ctg gtc aat gat cac tta ctt aat ttt gtg aga gag aga aca tta gac		1262
132 Leu Val Asn Asp His Leu Leu Asn Phe Val Arg Glu Arg Thr Leu Asp		
133 385	390	395
135 aaa cga tgg aga gta cgc aaa gaa gcc atg atg gga ctt gcc caa att		1310
136 Lys Arg Trp Arg Val Arg Lys Glu Ala Met Met Gly Leu Ala Gln Ile		
137 400	405	410 415
139 tat aag aaa tat gct tta cag tca gca gct gga aaa gat gct gca aaa		1358
140 Tyr Lys Tyr Ala Leu Gln Ser Ala Ala Gly Lys Asp Ala Ala Lys		
141 420	425	430
143 cag ata gca tgg atc aaa gac aaa ttg cta cat ata tat tat caa aat		1406
144 Gln Ile Ala Trp Ile Lys Asp Lys Leu Leu His Ile Tyr Tyr Gln Asn		
145 435	440	445
147 agt att gat gat cga cta ctt gtt gaa cgg atc ttt gct caa tac atg		1454
148 Ser Ile Asp Asp Arg Leu Leu Val Glu Arg Ile Phe Ala Gln Tyr Met		
149 450	455	460
151 gtt cct cac aat tta gaa act aca gaa cgg atg aaa tgc tta tat tac		1502
152 Val Pro His Asn Leu Glu Thr Thr Glu Arg Met Lys Cys Leu Tyr Tyr		
153 465	470	475
155 ttg tat gcc aca ctg gat tta aat gct gtg aaa gca ttg aat gaa atg		1550
156 Leu Tyr Ala Thr Leu Asp Leu Asn Ala Val Lys Ala Leu Asn Glu Met		
157 480	485	490 495
159 tgg aaa tgt caa aat ctg ctc cga cat caa gta aag gat ttg ctt gac		1598
160 Trp Lys Cys Gln Asn Leu Leu Arg His Gln Val Lys Asp Leu Leu Asp		
161 500	505	510
163 ttg att aag caa ccc aaa aca gat gcc agt gtc aag gcc ata ttt tca		1646
164 Leu Ile Lys Gln Pro Lys Thr Asp Ala Ser Val Lys Ala Ile Phe Ser		
165 515	520	525
167 aaa gtg atg gtt att aca aga aat tta cct gat cct ggt aag gct cag		1694
168 Lys Val Met Val Ile Thr Arg Asn Leu Pro Asp Pro Gly Lys Ala Gln		
169 530	535	540
172 gat ttc atg aag aaa ttc aca cag gtg tta gaa gat gat gag aaa ata		1742
173 Asp Phe Met Lys Phe Thr Gln Val Leu Glu Asp Asp Glu Lys Ile		
174 545	550	555
176 aga aag cag tta gaa gta ctt gtt agt cca aca tgc tcc tgc aag cag		1790
177 Arg Lys Gln Leu Glu Val Leu Val Ser Pro Thr Cys Ser Cys Lys Gln		
178 560	565	570 575
180 gct gaa ggt tgt gtg cgt gaa ata act aag aag ttg ggc aac ccc aaa		1838
181 Ala Glu Gly Cys Val Arg Glu Ile Thr Lys Lys Leu Gly Asn Pro Lys		
182 580	585	590
184 cag cct aca aat cct ttc ctg gaa atg atc aag ttt ctc ttg gag agg		1886
185 Gln Pro Thr Asn Pro Phe Leu Glu Met Ile Lys Phe Leu Leu Glu Arg		
186 595	600	605
188 ata gca cct gtg cac ata gat acc gaa tct atc agt gct ctt att aaa		
189 Ile Ala Pro Val His Ile Asp Thr Glu Ser Ile Ser Ala Leu Ile Lys		
190 610	615	620
192 caa gtg aac aaa tca ata gat gga aca gca gat gat gaa gat gag ggt		1982
193 Gln Val Asn Lys Ser Ile Asp Gly Thr Ala Asp Asp Glu Asp Glu Gly		

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194	625	630	635	
196	gtt cca act gat caa gcc atc aga gca ggt ctt gaa ctg ctt aag gta			2030
197	Val Pro Thr Asp Gln Ala Ile Arg Ala Gly Leu Glu Leu Leu Lys Val			
198	640	645	650	655
200	ctc tca ttt aca cat ccc atc tca ttt cat tct gct gaa aca ttt gaa			2078
201	Leu Ser Phe Thr His Pro Ile Ser Phe His Ser Ala Glu Thr Phe Glu			
202	660	665	670	
204	tca tta ctg gct tgt ctg aaa atg gat gat gaa aaa gta gca gaa gct			2126
205	Ser Leu Leu Ala Cys Leu Lys Met Asp Asp Glu Lys Val Ala Glu Ala			
206	675	680	685	
208	gca cta caa att ttc aaa aac aca gga agc aaa att gaa gag gat ttt			2174
209	Ala Leu Gln Ile Phe Lys Asn Thr Gly Ser Lys Ile Glu Glu Asp Phe			
210	690	695	700	
212	cca cac atc aga tca gcc ttg ctt cct gtt tta cat cac aaa tct aaa			2222
213	Pro His Ile Arg Ser Ala Leu Leu Pro Val Leu His His Lys Ser Lys			
214	705	710	715	
216	aaa gga ccc ccc cgt caa gcc aaa tat gcc att cat tgt atc cat gcg			2270
217	Lys Gly Pro Pro Arg Gln Ala Lys Tyr Ala Ile His Cys Ile His Ala			
218	720	725	730	735
220	ata ttt tct agt aaa gag acc cag ttt gca cag ata ttt gag cct ctg			2318
221	Ile Phe Ser Ser Lys Glu Thr Gln Phe Ala Gln Ile Phe Glu Pro Leu			
222	740	745	750	
224	cat aag agc cta gat cca agc aac ctg gaa cat ctc ata aca cca ttg			2366
225	His Lys Ser Leu Asp Pro Ser Asn Leu Glu His Leu Ile Thr Pro Leu			
226	755	760	765	
229	gtt act att ggt cat att gct ctc ctt gca cct gat caa ttt gct gct			2414
230	Val Thr Ile Gly His Ile Ala Leu Leu Ala Pro Asp Gln Phe Ala Ala			
231	770	775	780	
233	cct tgg aaa tct tgg gta gct act ttc att gtg aaa gat ctt ctc atg			2462
234	Pro Trp Lys Ser Trp Val Ala Thr Phe Ile Val Lys Asp Leu Leu Met			
235	785	790	795	
237	aat gat cgg ctt cca ggg aaa aag aca act aaa ctt tgg gtt cca gat			2510
238	Asn Asp Arg Leu Pro Gly Lys Lys Thr Thr Lys Leu Trp Val Pro Asp			
239	800	805	810	815
241	gaa gaa gta tct cct gag aca atg gtc aaa att cag gct att aaa atg			2558
242	Glu Glu Val Ser Pro Glu Thr Met Val Lys Ile Gln Ala Ile Lys Met			
243	820	825	830	
245	atg gtt cga tgg cta ctt gga atg aaa aat aat cac agt aaa tca gga			2606
246	Met Val Arg Trp Leu Leu Gly Met Lys Asn Asn His Ser Lys Ser Gly			
247	835	840	845	
249	act tct acc tta aga ttg cta aca aca ata ttg cat agt gat gga gac			2654
250	Thr Ser Thr Leu Arg Leu Leu Thr Thr Ile Leu His Ser Asp Gly Asp			
251	850	855	860	
253	ttg aca gaa cag ggg aaa att agt aaa cca gat atg tca cgt ctg aga			2702
254	Leu Thr Glu Gln Gly Lys Ile Ser Lys Pro Asp Met Ser Arg Leu Arg			
255	865	870	875	
257	ctt gct gct ggg agt gct att gtg aag ctg gca caa gaa ccc tgt tac			2750
258	Leu Ala Ala Gly Ser Ala Ile Val Lys Leu Ala Gln Glu Pro Cys Tyr			
259	880	885	890	895

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261	cat gaa atc atc aca tta gaa caa tat cag cta tgt gca tta gct atc	2798
262	His Glu Ile Ile Thr Leu Glu Gln Tyr Gln Leu Cys Ala Leu Ala Ile	
263	900 905 910	
265	aac gat gaa tgc tat caa gta aga caa gtg ttt gcc cag aaa ctt cac	2846
266	Asn Asp Glu Cys Tyr Gln Val Arg Gln Val Phe Ala Gln Lys Leu His	
267	915 920 925	
269	aaa ggc ctt tcc cgt tta cgg ctt cca ctt gag tat atg gca atc tgt	2894
270	Lys Gly Leu Ser Arg Leu Arg Leu Pro Leu Glu Tyr Met Ala Ile Cys	
271	930 935 940	
273	gcc ctt tgt gca aaa gat cct gta aag gag aga aga gct cat gct agg	2942
274	Ala Leu Cys Ala Lys Asp Pro Val Lys Glu Arg Arg Ala His Ala Arg	
275	945 950 955	
277	caa tgt ttg gtg aaa aat ata aat gta agg cgg gag tat ctg aag cag	2990
278	Gln Cys Leu Val Lys Asn Ile Asn Val Arg Arg Glu Tyr Leu Lys Gln	
279	960 965 970 975	
281	cat gca gct gtt agt gaa aaa tta ttg tct ctt cta cca gag tat gtt	3038
282	His Ala Ala Val Ser Glu Lys Leu Ser Leu Leu Pro Glu Tyr Val	
283	980 985 990	
286	gtt cca tat aca att cac ctt ttg gca cat gac cca gat tat gtc aaa	3086
287	Val Pro Tyr Thr Ile His Leu Leu Ala His Asp Pro Asp Tyr Val Lys	
288	995 1000 1005	
290	gta cag gat att gaa caa ctt aaa gat gtt aaa gaa tgt ctt tgg ttt	3134
291	Val Gln Asp Ile Glu Gln Leu Lys Asp Val Lys Glu Cys Leu Trp Phe	
292	1010 1015 1020	
294	gtt ctg gaa ata tta atg gct aaa aat gaa aat aac agt cac gct ttt	3182
295	Val Leu Glu Ile Leu Met Ala Lys Asn Glu Asn Asn Ser His Ala Phe	
296	1025 1030 1035	
298	atc aga aag atg gta gaa aat att aaa caa aca aaa gat gcc caa gga	3230
299	Ile Arg Lys Met Val Glu Asn Ile Lys Gln Thr Lys Asp Ala Gln Gly	
300	1040 1045 1050 1055	
302	cca gat gat gca aaa atg aat gaa aaa ctg tac act gtc act gat gtt	3278
303	Pro Asp Asp Ala Lys Met Asn Glu Lys Leu Tyr Thr Val Cys Asp Val	
304	1060 1065 1070	
306	gcc atg aat atc atc atg tca aag agt act aca tac agt ttg gaa tct	3326
307	Ala Met Asn Ile Ile Met Ser Lys Ser Thr Thr Tyr Ser Leu Glu Ser	
308	1075 1080 1085	
310	cct aaa gac ccg gta cta cca gct cgt ttc ttc act caa cct gac aag	3374
311	Pro Lys Asp Pro Val Leu Pro Ala Arg Phe Phe Thr Gln Pro Asp Lys	
312	1090 1095 1100	
314	aat ttc agt aac acc aaa aat tat ctg cct cct gaa atg aaa tca ttt	3422
315	Asn Phe Ser Asn Thr Lys Asn Tyr Leu Pro Pro Glu Met Lys Ser Phe	
316	1105 1110 1115	
318	tcc act cct gga aaa cct aaa aca acc aat gtt cta gga gct gtt aac	3470
319	Phe Thr Pro Gly Lys Pro Lys Thr Thr Asn Val Leu Gly Ala Val Asn	
320	1120 1125 1130 1135	
322	aag cca ctt tca tca gca ggc aag caa tct cag acc aaa tca tca cga	3518
323	Lys Pro Leu Ser Ser Ala Gly Lys Gln Ser Gln Thr Lys Ser Ser Arg	
324	1140 1145 1150	
326	atg gaa act gta agc aat gca agc agc agc tca aat cca agc tct cct	3566

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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/512,581D

DATE: 01/04/2005

TIME: 17:45:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I512581D.raw



IFW16

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/512,581D

DATE: 01/04/2005
 TIME: 10:00:22

Input Set : A:\34724-026US.txt
 Output Set: N:\CRF4\01042005\I512581D.raw

3 <110> APPLICANT: Soto, Ana M.
 4 Sonnenschein, Carlos
 5 Geck, Peter
 6 Szelei, Jozsef
 8 <120> TITLE OF INVENTION: NOVEL ANDROGEN-INDUCED SUPPRESSOR OF CELL PROLIFERATION AND
 USES
 9 THEREOF
 11 <130> FILE REFERENCE: 34724-026
 13 <140> CURRENT APPLICATION NUMBER: US 09/512,581D
 14 <141> CURRENT FILING DATE: 2000-02-24
 16 <150> PRIOR APPLICATION NUMBER: US 60/121,461
 17 <151> PRIOR FILING DATE: 1999-02-24
 19 <160> NUMBER OF SEQ ID NOS: 72
 21 <170> SOFTWARE: PatentIn version 3.3

ERRORED SEQUENCES

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 2233 <211> LENGTH: 13
 2234 <212> TYPE: DNA
 2235 <213> ORGANISM: Homo sapiens
 2237 <400> SEQUENCE: 72
 2238 ctttcctttt aag
 E--> 2241 40

13

*Does Not Comply
 Connected Diskette Needed*

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/04/2005
PATENT APPLICATION: US/09/512,581D TIME: 10:00:24

Input Set : A:\34724-026US.txt
Output Set: N:\CRF4\01042005\I512581D.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/04/2005
PATENT APPLICATION: US/09/512,581D TIME: 10:00:24

Input Set : A:\34724-026US.txt
Output Set: N:\CRF4\01042005\I512581D.raw

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/512,581D

DATE: 01/04/2005

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Input Set : A:\34724-026US.txt

Output Set: N:\CRF4\01042005\I512581D.raw

L:2241 M:254 E: No. of Bases conflict, this line has no nucleotides.